Supporting information

**Experimental and modelling studies of water sorption properties of cellulosic derivative fibers**

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S1: Deconvolution of X-ray diffraction curve of **(a)** C, **(b)** F, **(c)** V and **(d)** CA

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| **(a)** | **(d)****(b)** |
| **(c)** |  |

S2: Evolution of the sorption mass gain versus water activity in **(a)** Langmuir **(b)** Henry and **(c)** clustering modes for C, F, V and CA fibers

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| --- |
| **(a)** |
| **(b)** |
| **(c)** |